



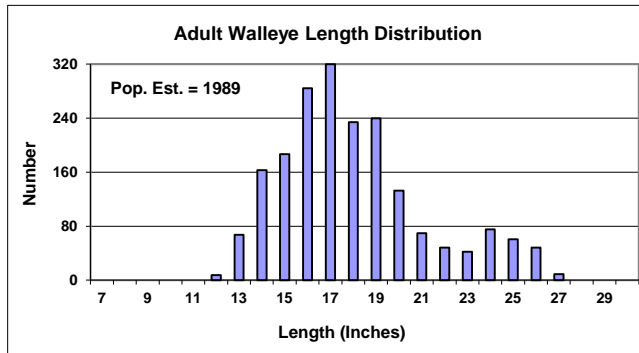
WISCONSIN DNR  
FISHERIES INFORMATION SHEET

LAKE: TWO SISTERS

COUNTY: ONEIDA

YEAR: 2014

The Department of Natural Resources surveyed Two Sisters Lake, Oneida County, between May 10 and May 17, 2014, to determine the health of its walleye fishery. Two Sisters Lake is a spring-fed lake with a sand, gravel, muck substrate and a naturally-reproducing walleye population that is supplemented by stocking. It has a surface area of 719 acres, 9.3 miles of shoreline and a maximum depth of 63 feet.



\* Note: Adult walleye are defined as all sexable walleye and walleye of unknown sex  $\geq 15$  inches long.

**Walleye**



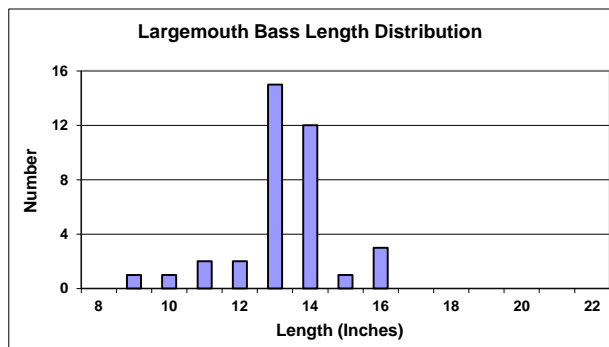
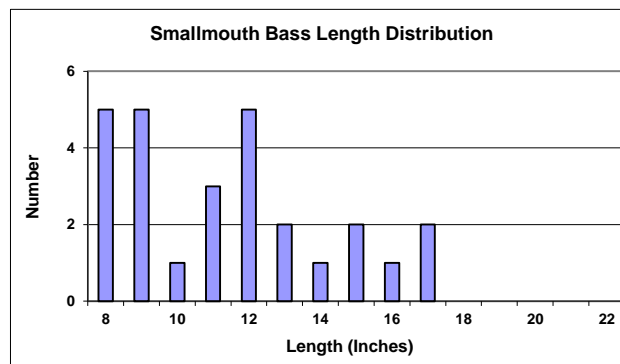
A mark-recapture survey of Two Sisters Lake's adult walleye population was conducted from 5/10-5/17. During 5 days of fyke netting, 680 adult walleye were captured and marked with a fin clip. Two crews sampled the lake with an electro-fishing boat on May 17 and captured 100 adult walleye. During electro-fishing 33% (33 of 100) of captured walleye bore the fin clip given during fyke netting. The largest walleye we captured was a 27.5-inch female.

Based on those results, Two Sisters Lake was estimated to contain 1989 adult walleye (2.8 /acre). An estimated 88% (1751 of 1989) of adult walleye were 15 inches long or larger.

**Smallmouth Bass**



Smallmouth bass were not a primary target during our survey of Two Sisters Lake. Sampling occurred prior to peak smallmouth spawning. However, we did capture 27 smallmouth bass, 8 inches or larger, during fyke netting and electro-fishing. Of those captured, 22% (6 of 27) were 14 inches long or larger. The largest smallmouth captured was 17 inches long.



**Largemouth Bass**



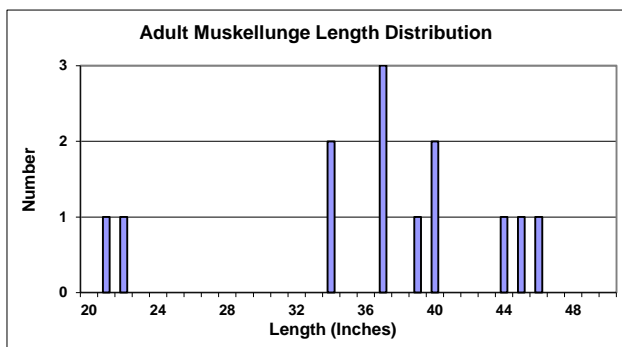
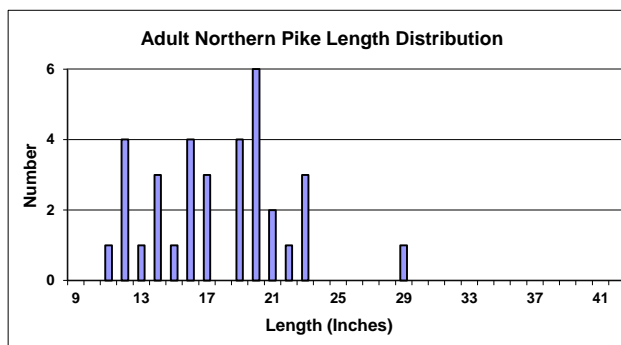
Largemouth bass were also not targeted during our survey of Two Sisters Lake. However, we incidentally captured 37 largemouth bass, 8 inches or larger, during fyke netting and electro-fishing. Of those largemouth captured, 43% (16 of 37) were 14 inches long or larger. The largest largemouth captured was 16 inches long.

## Northern Pike



From May 10 through May 17, 2014, 33 adult northern pike were captured in Two Sisters Lake. Of the adult northern pike captured 97% (33 of 34) were less than 26 inches long. The largest northern pike captured was a 29-inch female.

\* Note: Adult northern pike are defined as all sexable northern pike and northern pike of unknown sex  $\geq 12$  inches long.



## Muskellunge



During our survey of Two Sisters Lake, 13 adult muskellunge were captured. Of the muskellunge captured, 39% (5 of 13) were 40 inches long or larger. The largest muskellunge captured was a 46.2-inch female.

\* Note: Adult muskellunge are defined using PSD stock size as all sexable muskellunge and muskellunge of unknown sex  $\geq 20$  inches long.

## Other Species

In addition to the game fish mentioned above, 8 species of fish were captured during fyke netting and electro-fishing sampling of Two Sisters Lake. White suckers and rock bass were common in our fyke net catches. Also caught were moderate numbers of bluegills. Other species sampled included black crappie, pumpkinseed, yellow perch, redhorse, and common shiner.

A creel survey will be conducted on Two Sisters Lake throughout the 2014-15 fishing season to get estimates of fishing effort and angler harvest. Creel clerk Dave Stahmer will count and interview anglers and examine their catch. The information gathered will be used to estimate fishing effort and angler harvest.

**Table 1. General Fishing Regulations for Two Sisters Lake, Oneida County, 2014-15**

FISH SPECIES	OPEN SEASON	DAILY LIMIT	MINIMUM LENGTH
Walleye	May 3 - March 1	2	15 inches
Largemouth Bass	May 3 - March 1	5 in total with SMB	14 inches
Smallmouth Bass	May 3 - June 20 (C&R) June 21 - March 1 (Harvest)	5 in total with LMB; harvest season only	14 inches
Muskellunge	May 24 - Nov. 30	1	40 inches
Northern Pike	May 3 - March 1	5	None

A brief summary of selected fishing regulations for Two Sisters Lake is included above (Table 1). While the regulatory information provided was current at the time the surveys were conducted, it is not comprehensive and should not be used as a substitute for the current fishing regulation pamphlet. You may obtain a copy of current fishing regulations when you purchase your fishing license, or download a copy from our web site at:

<http://dnr.wi.gov/topic/fishing/regulations/>

This report is interim only; data and findings should not be considered final. Results of creel surveys should be available by June 2015. Watch for survey summaries at: <http://dnr.wi.gov/topic/Fishing/north/trtysprngsrvys.html> or contact:

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